#### ATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY To: JAMES B. MYERS, JR. WOODARD, EMHARDT, MORIARTY, MCNETT & HENRY WRITTEN OPINION OF THE BANK ONE CENTER/TOWER, SUITE 3700 INTERNATIONAL SEARCHING AUTHORITY 111 MONUMENT CIRCLE INDIANAPOLIS, IN 46204 (PCT Rule 43bis.1) Date of mailing (day/month/year) FOR FURTHER ACTION Applicant's or agent's file reference See paragraph 2 below 48003-4SEMAF Priority date (day/month/year) International filing date (day/month/year) International application No. 30 September 2003 (30.09.2003) 30 September 2004 (30.09.2004) PCT/US04/32289 International Patent Classification (IPC) or both national classification and IPC IPC(7): A61K 51/00 and US Cl.: 424/1.53, 1.11, 9.1, 1.65 Applicant SEMAFORE PHARMACEUTICALS, INC. 1. This opinion contains indications relating to the following items: Basis of the opinion Box No. I Box No. II **Priority** Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III Lack of unity of invention Box No. IV Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Certain documents cited Box No. VI Box No. VII Certain defects in the international application Certain observations on the international application Box No. VIII 2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US

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Form PCT/ISA/237 (cover sheet) (January 2004)

International application No.

PCT/US04/32289

Box No. I Basis of this opinion					
1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.					
This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).					
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:					
a. type of material					
a sequence listing					
table(s) related to the sequence listing					
b. format of material					
in written format					
in computer readable form					
c. time of filing/furnishing					
contained in international application as filed.					
filed together with the international application in computer readable form.					
furnished subsequently to this Authority for the purposes of search.					
In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.					
4. Additional comments:					

Form PCT/ISA/237(Box No. I) (January 2004)

International application No.

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Box No. II Priority					
1.	The following document has not yet been furnished:				
	copy of the earlier application whose priority has been claimed (Rules 43bis.1 and 66.7(a)).				
	translation of the earlier application whose priority has been claimed (Rules 43bis.1 and 66.7(b)).				
	Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.				
2.	This opinion has been established as if no priority has been claimed due to the fact that the priority claim has been found invalid (Rules 43bis.1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.				
3. Additional observations, if necessary:					
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Form PCT/ISA/237 (Box No. II) (January 2004)

International application No.

NG AUTHORITY PCT/US04/32289

Box 140. 111 [4011-establishment of opinion with regard to novely, inventive step and industrial applicability					
1. The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of:					
the entire international application					
claims Nos. 4-6,10,14-16,20 and 21					
because:					
the said international application, or the said claim Nos relate to the following subject matter which does not require an international preliminary examination (specify):					
the description, claims or drawings (indicate particular elements below) or said claims Nos. 4-6,10,14-16,20 and 21 are unclear that no meaningful opinion could be formed (specify):					
Claims 4-6, 10, 14-16, 20-21 are improper multiple dependent claims and are not drafted pursuant to Rule 6.4(a).					
the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed.					
no international search report has been established for said claims Nos.					
the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:					
the written form has not been furnished					
does not comply with the standard					
the computer readable form has not been furnished					
does not comply with the standard					
the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.					
See Supplemental Box for further details.					

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Box No. V Reasoned statement under Rule applicability; citations and expla	e 43 bis.1(a)(i) with regard to novelty, inventive step of anations supporting such statement	r industrial
1. Statement		
	Claims 1-3, 7-9, 11, 12-13, 17-19, 22-27	YES
Novelty (N)		NO
	Claims NONE	
Inventive step (IS)	Claims 1-3, 7-9, 11, 12-13, 17-19, 22-27	YES
	Claims NONE	NO
Industrial analicability (IA)	Claims 1-3, 7-9, 11, 12-13, 17-19, 22-27	YES
Industrial applicability (IA)	Claims NONE	NO
2. Citations and explanations:  Claims 1-3, 7-9, 11, 12-13, 17-19, 22-27 meet the fairly suggest the claimed compositions or methods	criteria set out in PCT Article 33(2)-(3), because the prior art of inhibiting tumor growth by administering the claimed comp	does not teach or oositions.
Furthermore, the claimed subject matter can be ma	de or used in industry.	•
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